

Title (en)

GRATE PLATE FOR MECHANICALLY MOVED STEPPED FURNACE GRATES OF LARGE-CAPACITY FURNACES

Publication

EP 0152521 A3 19860409 (DE)

Application

EP 84109780 A 19840817

Priority

DE 3330636 A 19830824

Abstract (en)

[origin: US4548139A] A grate for industrial furnaces wherein pairs of stationary grate bars flank movable grate bars. The grate bars of each pair are connected to each other by an elongated coupling device which extends through one or more elongated slots of the movable grate bar between them. The coupling device has two bolts whose heads are pivotably anchored in the downwardly extending ribs of the stationary bars and an internally threaded sleeve which is located between the slots in two downwardly extending ribs of the movable grate bar and meshes with the shanks of the two bolts. The shanks have oppositely inclined threads and the sleeve is held in the selected position by a lock nut. The ribs at the undersides of the two stationary bars have vertically extending slots which are open at the lower ends to allow for introduction of the shanks of the respective bolts, and the upper ends of the slots are enlarged to take portions of the heads of the bolts and to thus prevent rotation of bolts relative to the respective grate bars.

IPC 1-7

F23H 17/00

IPC 8 full level

F23H 7/08 (2006.01); **F23H 17/08** (2006.01)

CPC (source: EP US)

F23H 17/08 (2013.01 - EP US)

Citation (search report)

- DE 2808057 C2 19800214
- AT 131212 B 19330110 - SCHLINK CLEMENS
- DE 386160 C 19231217 - HANS BEER JUN
- US 1168367 A 19160118 - WUNDRACK OTTO [US]
- DE 2252580 A1 19730628 - VON ROLL AG
- DE 436637 C 19261105 - BABCOCK & WILCOX DAMPFKESSEL

Cited by

DE9114836U1

Designated contracting state (EPC)

BE CH FR GB LI NL SE

DOCDB simple family (publication)

DE 3330636 C1 19850110; DK 404184 A 19850225; DK 404184 D0 19840823; EP 0152521 A2 19850828; EP 0152521 A3 19860409; EP 0152521 B1 19880309; JP S6060416 A 19850408; US 4548139 A 19851022

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